```
1    MFKSLIKVKPIGENENEQSRRNEEGSHPSNSQQTTAQEENKGEEKSLKTKSTPV      Cng3BFL.pro
1    M------------AKINTQYSHPSR-----THLKVKTSDRDLNRAENGLSRAHSSEETS  CNGA3.pro
1    M----KLS-MNNIINTQQSFVTM-----PNVIVPDIEKEIRRMENGACSSFSEDDDSA   CNGA1.pro

61   TSEEPHTNIQDKLSKKNSSGDLTNPDPQNAAEPTGTVPEQKEMDPGKEGPNSPQNKPPA  Cng3BFL.pro
44   SVLQEGIAMETRGLADSGQGSFTGQ---GIARLS---RLIFL--LRRWAARHVHHQ     CNGA3.pro
50   STSE------ESENENPHARGSFSYK---SLRKGGPSQREQYLPGAIALFNVNNSSNK   CNGA1.pro

121  APVINEYADAQLHNLVKRMRQRTALYKKKLVEGDLSSPEASPQTAKPTAVPPVKESDKP    Cng3BFL.pro
92   DQGEDSFPDRFRGAEIKEVSSQESNAQANVGSQEPADRGRSAWPLAKCNTNTSNNTEEEK  CNGA3.pro
99   DQEEEKKKKKEKKSKSDDKNENKNDPEKKKKKKDKEKKKKEEKSKDKK              CNGA1.pro

181  TEHYRLLWFKVKKMPLTEYLKRIKLPNSIDSYTDRLYLIWLLLVTTIA--YNWNCWFIPL  Cng3BFL.pro
152  KTK------KKDAIV------VDP-SSNLYYRWLTAIAIPVFYNWY---LLIC          CNGA3.pro
149  EEE------KKEVVI------IDP-SGNTYYNWLFCITLPVMYNWT---MVIIA         CNGA1.pro

239  RLVFPYQTADNIHYWLIADIICDIIYLYDMLEIQPRLQFVRGGDIIVDSNELRKHYRTSP  Cng3BFL.pro
169  RACFDELQSEYIMIWLVLDYSADVIYVLDV-LVRARTGFLEOGIMVSDTNRLWQHYKTTT  CNGA3.pro
186  RACFDELQSDYIEYWLILDYVSDIVYIIDM-FVRRTGVLEOGIIVKEELKLINKYKSNL   CHGA1.pro

299  KFQIDVASIIPEDICYLEFGEN-PMERANRMKYTSFFEFNHHLESIMDKAYIYRVIRTT   Cng3BFL.pro
248  QFKLDVLSLVPTDIAYLKVGTNYPEVRFNRLLKFSRLFEFDRTETRTNYPNMFRIGNLV   CNGA3.pro
245  QFKLDVLSLLIPTDLIYKLGMNYPEIRLNRLLRFESRMEEFQRTETRTNYPNIFRISNLV  CHGA1.pro

358  GVLIETLHINACVYYWASNYEGIGTLRWVYDGEGN--------EYLRCYYWAVRTLLTIG  Cng3BFL.pro
308  LYILIIHWNACIYFAISKFIGFGTDSWVYPNISIPEHGRLSRKYIYSLYWSTLTLTTIG   CNGA3.pro
305  MYIIVIIHWNACVFYSISKAIGFGNDTWVYPDINDPEFGRLARKYIYSLYWSTLTLTTIG  CHGA1.pro
```

FIG. 1.

```
410  GIFEPQTLEEIVFQLLNFESGVEVFSSLIGQMRDVFGAATANQNYFRACMDDTIAYMNNY   Cng3BFL.pro
368  ETPPVKDEEYLFVVVDFIVGVLIFATIVGNVGSMISNMNASRAEFQAKIDSIKQYMQFR    CNGA3.pro
365  ETPPPVRDSEYVFVVVDFIIGVLIFATIVGNIGSMISNMNAARAEFQARIDAIKQYMHER   CNGA1.pro

470  SIPKLVQKRVRTWYEYIWDSQRMLDESDILKILPTVQLAIAIDVNESIISKVDLFKGCD    Cng3BFL.pro
428  KVTKDLEIRVIRWFDYLWANKKTVDEKEVLKSLPDKLKAEIAINVHLDTLKKVRIFQDCE   CNGA3.pro
425  NVSKDMEKRVIRWFDYLWTNKKTVDEKEVLKYLPDKIRAEIAINVHLDRLKKVRIFADCE   CNGA1.pro

530  TQMIYDMITIKSVIYLPGDEVCKKGEFGKEMYIIKHGEVQVLGGPDGTKVLITKAGSV     Cng3BFL.pro
488  AGLLVELVLKIRPTVESPGDYICKKGDIGKEMYIINEGKLAVVAD-DGVTQFVVLSDGSY   CNGA3.pro
485  AGLLVELVLKIQBVYSPGDYICKKGDIGREMYIIKEGKLAVVAD-DGVTQFVVLSDGSY    CNGA1.pro

590  FGEISILIAAGG---GNRRTANVVAHGFANILTDKTTQFILVHYPDSERILMKKAR-VL    Cng3BFL.pro
547  FGEISILNIKGSKSGNRRTANIRSIGYSDLFCLSKDDLMEALTEYPEAKALEEKGRQIL    CNGA3.pro
544  FGEISILNIKGSKAGNRRTANIKSIGYSDLFCLSKDDLMEALTEYPDAKTMLEEKGKQIL   CNGA1.pro

646  IKQKAKTAEATPPRKDLALLFPPKEETKLFKILLGGTGKASLARLLKREQAAQKKEN      Cng3BFL.pro
607  MKDNIIDEIARAGAD------PKDLEEKV--EQLGSSLDTLQTRFARLL              CNGA3.pro
604  MKDGLLDLNIANAGSD------PKDLEEKV--IRMEGSVDILQTRFARIL             CNGA1.pro

706  SEGGEEEGKENEDKQKENEDKGKENEDKGREPEEKPLDRPECTASPIAVEE            Cng3BFL.pro
649  -----AEYNATQMKMKQRISQIESQVKGGGDK------PLADGE                  CNGA3.pro
646  -----AEYESMQQKIKQRITKVEKFLKPLIDF------EFSSIE                  CNGA1.pro

766  EPHSVRRTVLPRGTSRQSLLIISMAPSAEGGEEVLTIEVKEKAKQ.                 Cng3BFL.pro
682  VP-------------------------GDATKTED--KQQ.                      CNGA3.pro
679  GP-------------------------GAESGPID--ST.                       CNGA1.pro
```

FIG. 1. (CONTINUED)

CCATCCTAATACGACTCACTATAGGGCGGCCGCCCGGGCAGGTCATTTCTCTACCTTAAGGCACAGTCATA

AATACAGAGGGTTTCAGAACCACCTCAGAGAAGATGTTTAAATCGCTGACAAAAGTCAACAAGGTGAAGCCTATAG

GAGAGAACAATGAGAACAAAGTTCTCGTCGGAATGAAGAAGGCTCTCACCCAAGTAATCAGTCTCAGCAAACC

ACAGCACAGGAAGAAAACAAAGGTGAAGAGAAATCTCTCAAAACCAAGTCAACTCCAGTCACGTCTGAAGAGCCACA

CACCAACATACAAGACAAACTCTCCAAGAAAAATTCCTCTGGAGATCTGACCACAAACCCTGACCCTCAAAATGCAG

CAGAACCAACTGAACAGTGCCAGAGCAGAAGGAAATGGACCCCGGGAAAGAAGGTCCAAACAGCCCACAAACAAA

CCGCCTGCAGCTCCTGTTATAAATGAGTATGCCGATGCCCAGCTACACAACCTGGTGAAAAGAATGCGTCAAAGAAC

AGCCCTCTACAAGAAAAAGTTGGTAGAGGGAGATCTCTCCTCACCCGAAGCCAGCCCACAAACTGCAAAGCCCACGG

CTGTACCACCAGTAAAAGAAAGCGATGATAAGCCAACAGAACATTACTACAGGCGTGTTGTGGTTCAAAGTCAAAAAG

ATGCCTTAACAGAGTACTTAAAGCGAATTAAACTTCCAAACAGCATAGATTCATACACAGATCGACTCTATCTCCT

GTGGCTCTTGCTTGTCACTCTTGCCTATAACTGGAACTGCTGGTTTATACCACTGCGCCTCGTCTTCCCATATCAAA

CCGCAGACAACATACACTACTGGCTTATTGCGGACATCATATGTGATATCATCTACCTTTATGATATGCTATTTATC

CAGCCCCAGACTCCAGTTTGTAAGAGGAGGAGGACATAATAGTGGATTCAAAATGAGCTAAGGAAACACTACAGGACTTC

TACAAAATTTCAGTTGGATGTCGCATCAATAATACCATTTGATATATTGCTACCCTCTTCTTCTTTGGGTTTAATCCAAATGT

FIG. 2.

TTAGAGCAAATAGGATGTTAAAGTACACTTCATTTTTGAATTAATCATCACCTAGAGTCTATAATGGACAAAGCA

TATATCTACAGAGTTATTCGAACAACTGGATACTTGCTGTTTATTCTGCACATTAATGCCTGTGTGTTATTACTGGGC

TTCAAACTATGAAGGAATTGGCACTACTAGATGGGGTGTATGATGGGGAAGGAAACGAGTATCTGAGATGTTATTATT

GGGCAGTTCGAACTTTAATTACCATTGGTGGCCTTCCAGAACCACCAAACTTTATTGAAATTGTTTTTCAACTCTTG

AATTTTTTTCTGGAGTTTTTGTGTTCTCCAGTTTAATTGGTCAGACACCATTGCCTACAATGGACAACAATTACTCCATTCCTAAACTTGTGCAAA

TCAGAACTACTTCCGCGCCTGCATGGATGACACCCATTGCCTACAATGGACAACAATTACTCCATTCCTAAACTTGTGCAAA

AGCGGAGTTCGGACTTGGTATGAATATACATGGGACTCTCAAAGAATGCTAGATGAGTCTGATTTGCTTAAGACCCTA

CCAACTACGGTCCAGTTAGCCCTGCGCCATTGATGTGAACTTCAGCATCATCAGCAAAGTCGACTTGTTCAAGGGTTG

TGATACACAGATGATTTATGACATGTTGCTAAGATTGAAATCCGTTCTCTATTGCCTGGTGACTTTGTCTCTGCAAAA

AGGGAGAAATTGGCAAGGAAATGTATATCATCAAGCATGGAGAAGTCCAAGTTCTTGGAGGCCCTGATGGTACTAAA

GTTCTGGTTACTCTGAAAGCTGGGTCGGTGTTTGGAGAAATCAGCCTTCTCTAGCAGCAGGAGGAGGAAACCGTCGAAC

TGCCAATGTGGTGGCCCACGGGTTTGCCAATCTTTTTAACTCTAGAACAAAAGACCCTCCAAGAAATTCTAGTGCATT

ATCCAGATTCTGAAAGGATCCTCATGAAGAAAGCCAGAGTGCTTTAAAGCAGAAGGCTAAGACCGCAGAAGCAACC

CCTCCAAGAAAAGATCTTGCCCTCCTCTTCCCACCGAAAGAAGAGACACCCAAACTGTTTAAAACTCTCCTAGGAGG

FIG. 2. (CONTINUED)

```
CACAGGAAAAGCAAGTCTTGCAAGACTACTCAAATTGAAGCGGAGAGCAAGCAGCTCAGAGAAGAAAGAAAATTCTGAAG

GAGGAGAGGAAGAAGGAAAAGAAAATGAAGATAAACAAAAAGAAAAGAAAATGAAGATAAA

GGAAAAGAAAATGAAGATAAAGAGGAAGAGCCAGAAGAGAGAAGCCACTGGACAGACCTGAATGTACAGCAAG

TCCTATTGCAGTGGGAGGAAGAACCCCACTCAGTTAGAAGGACAGTTTACCCAGAGGGACTTCTCGTCAATCACTCA

TTATCAGCATGGCTCCTTCTGCTGAGGGCGGAGAAGAGGTTCTTACTATTGAAGTCAAAGAAAAGGCTAAGCAATAA

ATGTTTGATTATCTTTAGATGTGATATAGCTAGTTCCCAAAGTGATTGTACCTAGGATTGTAACTTAAATTAACGAG

GGGAAACGACATGCTGGGACCCCTTGAGAAACGAAAGGCAAATCCCTAGCTTAGTTTCTAGGACTTATCTGAGAGTGT

GATTTCATGCAGTGGTAATAAGAAGATTATTAAAGCAAAAAAAAAAAAAAAAAAAAA
```

FIG. 2. (CONTINUED)

ATGTTTAAATCGCTGACAAAGTCAACAAGGTGAAGCCTATAGGAGAGAACAATGAGAATGAACAAAGTTCTCGTCGGAA

TGAAGAAGGCTCTCACCCAAGTAATCAGTCTCAGCAAACCACAGCACCAGGAAGAAACAAAGGTGAAGAGAAATCTCTCA

AAACCAAGTCAACTCCAGTCACGTCTGAAGAGCCACCACCAACATACAAGAGACAAACTCTCCAAGAAAAATTCCTCTGA

GATCTGACCACAAACCCTGACCCTCAAAATGCAGCAGAACCAACTGGAACAGTGCCAGAGCAGAAGGAAATGGACCCCGG

GAAAGAAGGTCCAAACAGCCCACAAAACAAACCGCCTGCAGCCCTCTACAAGAAAAAGTTGGTAGAGGGAGATCTCTCACCCGAAGCC

ACCTGGTGAAAGAATGCGTCAAAGAACAGCCCTCAAAGAACAGCCAACAGAACCAACAGAACATTACTACAGGCT

AGCCCACAAACTGCAAAGCCCACGGCTGTACCCACCAGTAAAAGAAGAGCGATGATAAGCCAACAGAGATTCATACA

GTTGTGGTTCAAAGTCAAAAGATGCCTTTAAACAGAGTACTTAAAGCGAATTAAACTTCCAAACAGCATAGATTCATACA

CAGATCGACTCTATCTCCTGTGGCTCTTGCTTGTCCTATAACTGGAACTGCTGGTTTATACCACTGCGCCTC

GTCTTCCCATATCAAACCGCAGACAACATACACTACTGGCTTATTGCGGACATCATATGTGATATCATCTACCTTTATGA

TATGCTATTTATCCAGCCCAGACTCCAGTTTGTAAGAGGAGGAGACATAATAGTGGATTCAAATGAGCTAAGGAAACACT

ACAGGACTTCTACAAAATTTCAGTTGGATGTGCGCATCAATAATACCATTTGATATTTGCTACCCTCTTCTTTGGGTTTAAT

CCAATGTTTAGAGCAAATAGGATGTTAAAGTACACTTCATTTTTTGAATTTAAATCATCACCTAGAGTCTATAATGGACAA

AGCATATATCTACAGAGTTATTCGAACAACTGGATACTTGCTGTGTTTATTCTGCACATTAATGCCTGTGTTTATTACTGGG

FIG. 3.

CTTCAAACTACTATGAAGGAATTGGCACTACTAGATGGGTGTATGATGGGAAGGAAACGAGTATCTGAGATGTTATTATTGG

GCAGTTCGAACTTAATTACCATTGGTGGCCTTCCAGAACCACAAACTTTATTTGAAATTGTTTTTCAACTTCTTGAATTT

TTTTTCTGGAGTTTTTGTGTTCTCCAGTTTAATTGGTCAGATGAGAGATGTGATTGGAGCAGCTACAGCCAATCAGAACT

ACTTCCGCGCCTGCATGGATGACACCATTGCCTACATGAACAATTACTCCATTCCTAAACTTGTGCAAAAGCGAGTTCGG

ACTTGGTATGAATATACATGGGACTCTCAAAGAATGCTAGATGAGTCTGATTTGCTTAAGACCCTACCAACTACGGTCCA

GTTAGCCCCTGCCATTGATGTGAACTTCAGCATCATCAGCAAAGTCGACTTGTTCAAGGGTTGTGATACACAGATGATTT

ATGACACATGTTGCTAAGATTGAAATCCGTTCTCTATTGCCTGGTGACTTTGTCTGCAAAAGGGAGAAATTGGCAAGGAA

ATGTATATCATCAAGCATGGAGAGTCCAAGTTCTTGGAGGCCCTGATGGTACTAAAGTTCTCGGTTACTCTGAAAGCTGG

GTCGGTGTTTGGAGAAATCAGCCTTCTAGCAGCAGGAGGAGGAAACCGTCGAACTGCCAATGTGGTGGCCCACGGGTTTG

CCAATCTTTTAACTCTAGACAAAAGACCCTCCAAGAAATTCTAGTGCATTATCCAGATTCTGAAAGGATCCTCATGAAG

AAAGCCAGAGTGCTTTAAAGCAGAAGGCTAAGACCGCAGAAGCAACCGCCAGAAGTCTTGCAAGACTACTCAAAT

ACCGAAAGAAGAGACACCCAAACTGTTTAAAACTCTCCTAGGAGGCACAGGAAAAGCAAGTCTTGCAAGACTACTCAAAT

TGAAGCCGAGAGCAAGCAGCTCAGAGAAGAAGAAATTCTGAAGGAGGAGAGGAGAAAGAAAATGAAGATAAACAA

AAAGAAAATGAAGATAAACAAAAAGAAAATGAAGATAAAGGAAGAGAGAGCCAGA

FIG. 3. (CONTINUED)

AGAGAAGCCACTGGACAGACCTGAATGTACAGCAAGTCCTATTGCAGTGGAGGAAGAACCCCACTCAGTTAGAAGGACAG

TTTACCCAGAGGGACTTCTCGTCAATCACTCATTATCAGCATGGCTCCTTCTGCTGAGGGCGGAGAAGAGGTTCTTACT

ATTGAAGTCAAAGAAAAGGCTAAGCAATAA

FIG. 3. (CONTINUED)

```
MFKSLTKVNKVKPIGENNENEQSSRRNEEGSHPSNQSQQTTAQEENKGEEKSLKTKSTPVTS

EEPHTNIQDKLSKKNSSGDLTTNPDPQNAAEPTGTVPEQKEMDPGKEGPNSPQNKPPAAPVI

NEYADAQLHNLVKRMRQRTALYKKKLVEGDLSSPEASPQTAKPTAVPPVKESDDKPTEHYYR

LLWFKVKKMPLTEYLKRIKIKLPNSIDSYTDRLYLLWLLLVTLAYNWNCWFIPLRLVFPYQTAD

NIHYWLIADIICDIIYLYDMLFIQPRLQFVRGGDIIVDSNELRKHYRTSTKFQLDVASIIPF

DICYLFFGFNPMFRANFMLKYTSFFEFNHHLESIMDKAYIYRVIRTTGYLLFILHINACVYY

WASNYEGIGTTRWVYDGEGNEYLRCYWAVRTLITIGGLPEPQTLEIVEQLLNEFSGVFVE

SSLIGQMRDVIGAATANQNYFRACMDDTIAYMNNYSIPKLVQKRVRTWYEYTWDSQRMLDES

DLLKTLPTTVQLALAIDVNFSIISKVDLFKGCDTQMIYDMLLRLKSVLYLPGDFVCKKGEIG

KEMYIIKHGEVQVLGGPDGTKVLVTLKAGSVFGEISLLAAGGGNRRTANVVAHGFANLLTLD

KKTLQEILVHYPDSERILMKKARVLLKQKAKTAEATPPRKDLALLFPPKEETPKLFKTLLGG

TGKASLARLLKLKREQAAQKKENSEGGEEEGKENEDKQKENEDKGKENEDKDKGR

EPEEKPLDRPECTASPIAVEEEPHSVRRTVLPRGTSRQSLIISMAPSAEGGEEVLTIEVKEK

AKQ
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FIG. 4.